

<Your Document Number (same as in header)>

Defense Information Infrastructure (DII)

Common Operating Environment (COE)

**Software Test Description (STD) for
<name and version of software/segment>**

<Document Version (if applicable)>

<Date>

Prepared for:

Defense Information Systems Agency

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Notes on Using the Template

1. Refer to Section 3.1 and 3.2 of the *DII COE Developer Documentation Requirements* for format requirements and guidelines for using the templates.
2. This template has been formatted for a small document (12 pages or less). Section headings are left adjusted (refer to Section 3.1.6 of the *DII COE Developer Documentation Requirements*) and are not required to begin on a new odd page.

1. Scope

This section shall be divided into the following paragraphs.

1.1 Identification

This paragraph shall contain a full identification of the system and the software. It must provide the name(s), title(s), abbreviation(s), version number(s), and the release number(s).

Identification must include the operating system platform(s) to which this document applies.

1.2 System Overview

This paragraph shall provide a brief description of the general nature, purpose, and function of the system and software.

2. Referenced Documents

Provide a list of documents referenced in this document. List each document by document number, title, version/revision, and date. Identify the source for all documents not available through the Government.

3. Test Preparation

Provide the information identified in the following paragraphs. Include any safety precautions, identified by a WARNING or CAUTION, and security or privacy concerns.

3.1 <Name of Test> Preparation

Identify a test and provide the following information.

3.1.1 Hardware Preparation

Describe the procedures necessary to prepare the hardware for the test. May reference published operating manuals or other documentation for these procedures. Provide, as applicable:

1. Specific hardware identification
2. Any switch settings and cabling required to connect the hardware
3. Diagram(s) to show hardware, interconnections, control and data paths
4. Step-by-step instructions for placing the hardware in a state of readiness

3.1.2 Software Preparation

Describe the procedures necessary to prepare the item(s) under test and any related software, including data, for the test. May reference published software manuals for these procedures. Provide, as applicable:

1. Identification of specific software to be used in the test
2. Storage medium of the item(s) under test
3. Storage medium of any related software
4. Instructions for loading the software
5. Instructions for software initialization to more than one test case

3.1.3 Other Preparations

Describe any other required actions, preparations, or procedures.

4. Test Descriptions

Provide the information identified in the following paragraphs. Include any safety precautions, identified by a WARNING or CAUTION, and any security or privacy concerns.

4.1 <Name of Test> Description

Identify the test and provide the following information for each test case. Where information required duplicates information previously provided, that information may be referenced rather than repeated.

4.1.1 <Name of Test Case>

Identify the test case, state its purpose, and provide a brief description. Provide details in the following paragraphs.

4.1.1.1 Prerequisite Conditions

Identify conditions that must be established prior to performing the test case, such as:

1. Hardware and software configurations
2. Initial conditions for hardware
3. Control parameters, flags, breakpoints, or initial data settings
4. Other environmental conditions

4.1.1.2 Test Inputs

Describe the test inputs necessary for the test case, such as:

1. Name, purpose, and description of each test input
2. Whether the test input is real or simulated
3. Source for and method of selecting the test input

4. Time or event sequence of the test input
5. Manner in which the test input will be controlled

4.1.1.3 Expected Test Results

Identify all expected test results for the test case.

4.1.1.4 Criteria for Evaluating Results

Identify the criteria to be used for evaluating results of the test case. Provide the following or similar types of information:

1. Acceptable input and output conditions
2. Acceptable output range or accuracy
3. Allowable errors and severity of errors allowed
4. Minimum/maximum allowable test duration (in time or events)
5. Maximum number of interrupts, halts, or other system breaks
6. Conditions for interpreting outputs
7. Conditions for re-testing
8. Allowable indications of the control, status, and results

4.1.1.5 Test Procedure

Define the test procedure in numbered steps listed sequentially in the order in which they are to be performed. For convenience, test procedures may be included as an appendix and referenced in this paragraph. Provide the following for each test procedure, as applicable:

1. Test operator action and equipment operation required
2. Expected results and evaluation criteria
3. Actions to follow in the event of a program stop or other error
4. Procedures to be used to collect, reduce, and analyze test results

4.1.1.6 Assumptions and Constraints

Identify any assumptions made and constraints or limitations imposed due to system or test conditions.

5. Requirements Traceability

Provide traceability from each test case to the system or software requirements it addresses. Provide traceability for each system or software requirement to the test case that addresses it.

6. Notes

Provide general information to assist in the understanding of this document. This section may include a list of acronyms and abbreviations, and a list of terms and definitions.

7. Documentation Improvement and Feedback

Comments and other feedback on this document should be directed to the DII COE Hotline:

Phone: 703-735-8681

Fax.: 703-735-3080

Email: HotlineC@ncr.disa.mil

A. Appendices

Appendices may be used to provide additional information published separately for convenience in document maintenance. The appendices shall be referenced in the main body of the document, where applicable.